JMB4 user's manual

Version: 2.4

Table of contents

1. Introduction 3

1.1 In the box 3

1.2 JMB4 Printer Features 4

1.2.1 Front view 4

1.2.2 Rear view 4

1.2.3 Interior view 5

2. Getting started 5

2.1 Loading the foil 5

2.2 Loading the media 9

2.3 Printing up to three ribbons 12

2.4 JMB4 Connecting interfaces 122

2.4.1 USB Slave 122

2.5 Power on the printer 133

2.6 JMB4 Control panel 144

3. Specifications 17

3.1 JMB4 general specifications ..... **Error! Bookmark not defined.** 17

3.2 Universal Serial Bus (USB) port pin assignment 18

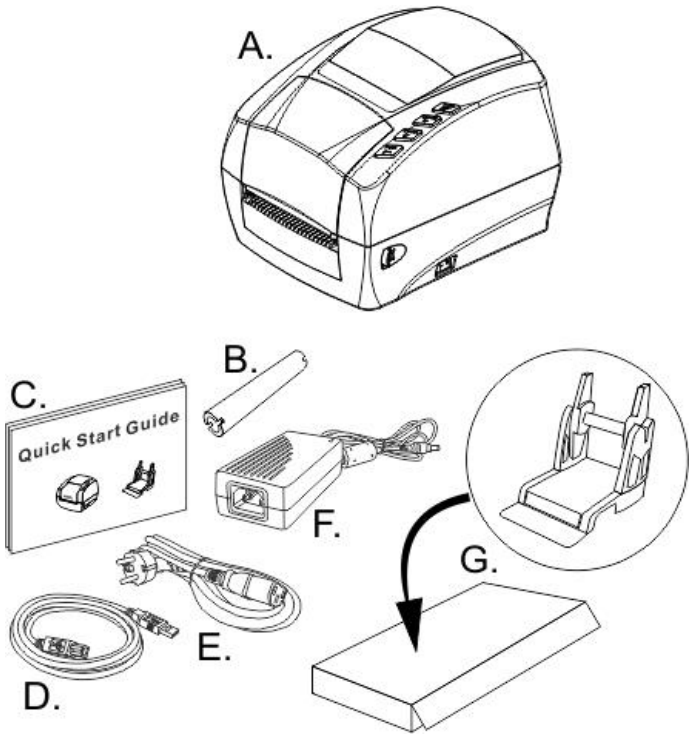
3.3 Serial port pin assignment 19

1. Introduction

1.1 In the box

After unpacking, please inspect carefully and make sure that you have received all the necessary parts as below:

A. Printer
B. Core for foil take-up
C. Quick start guide
D. USB cable
E. Power Cord
F. Quick start guide
G. External carrier for media/ribbon

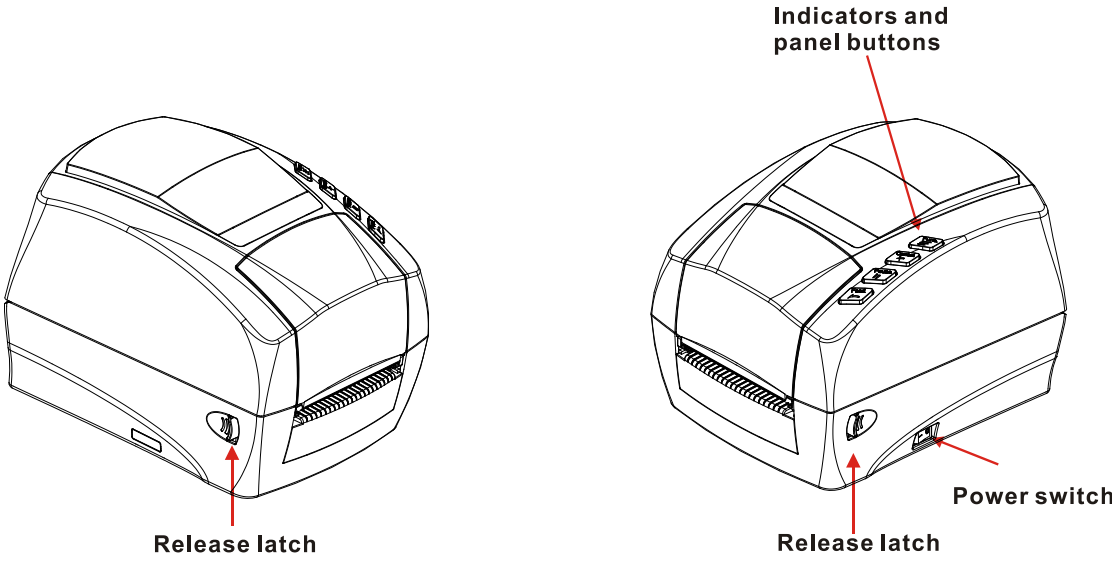


If any parts are missing, please contact us.

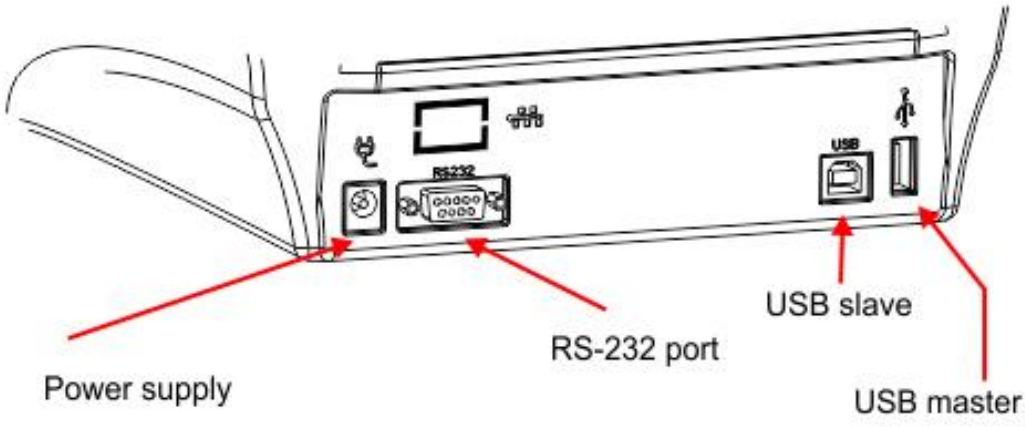
Save the carton and all packing materials in case you need to reship back.

1.2 JMB4 Printer Features

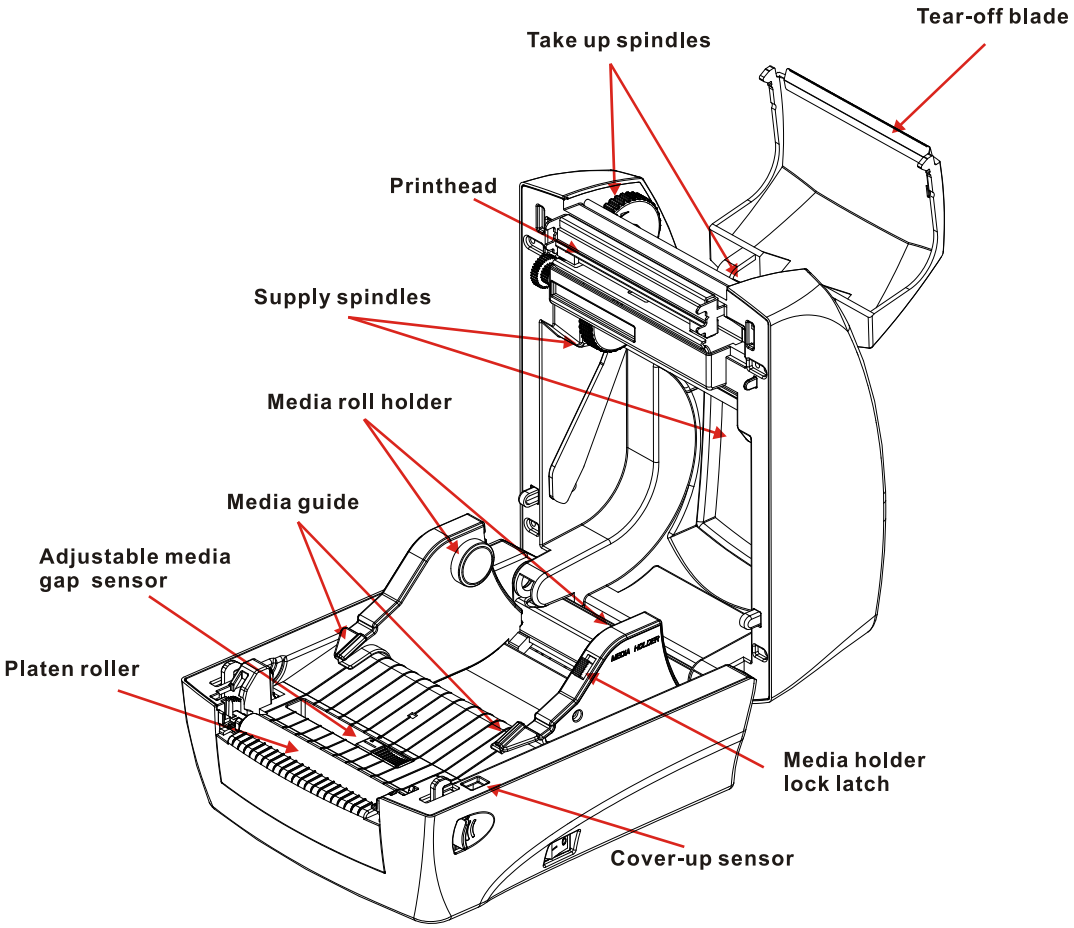
1.2.1 Front view



1.2.2 Rear view



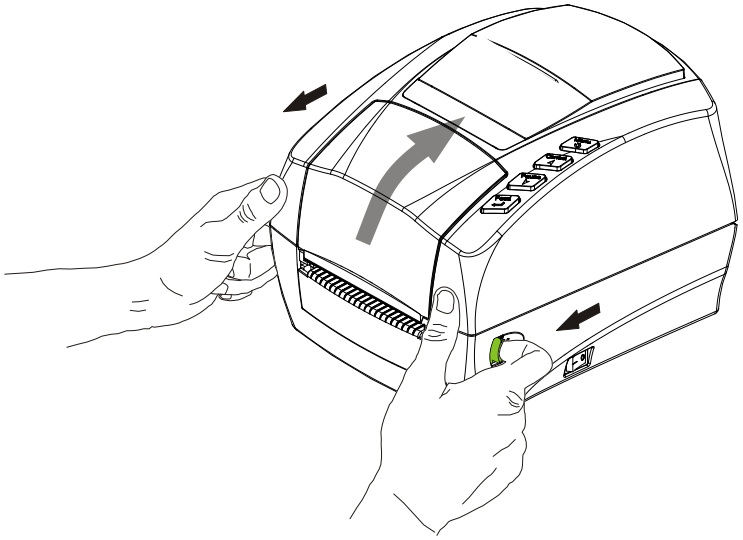
1.2.3 Interior view



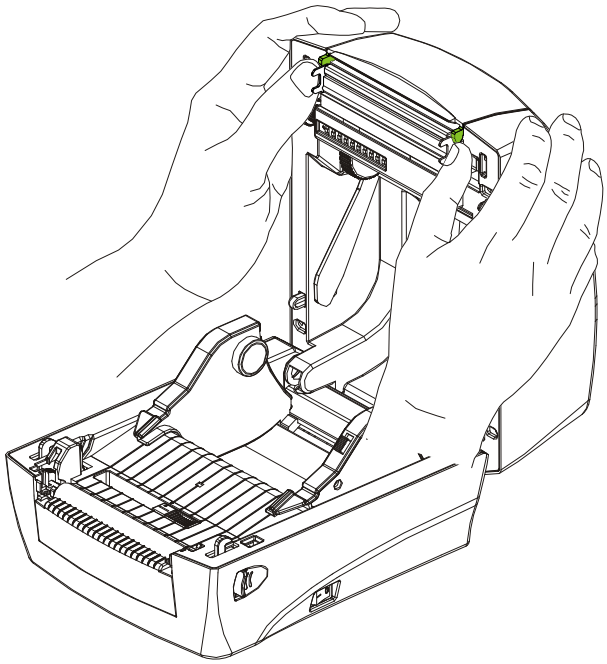
2. Getting started

2.1 Loading the foil

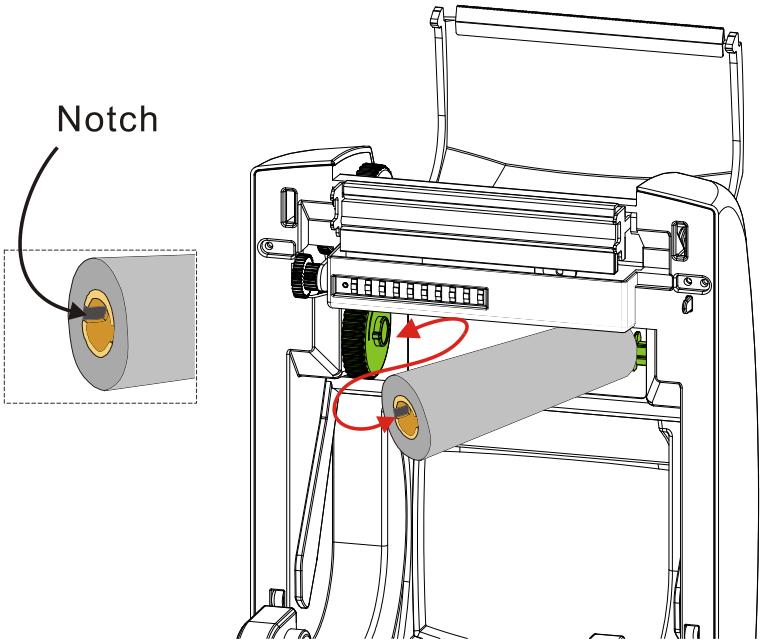
1. Pull the release latches on both sides toward the front of printer to open the printer cover.



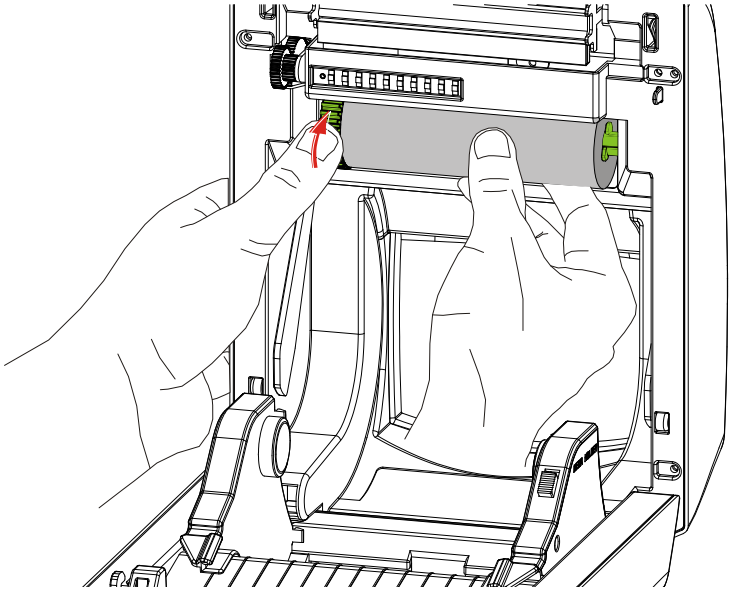
2. Open the foil cover by pushing the ribs (as shown in green) of foil cover.



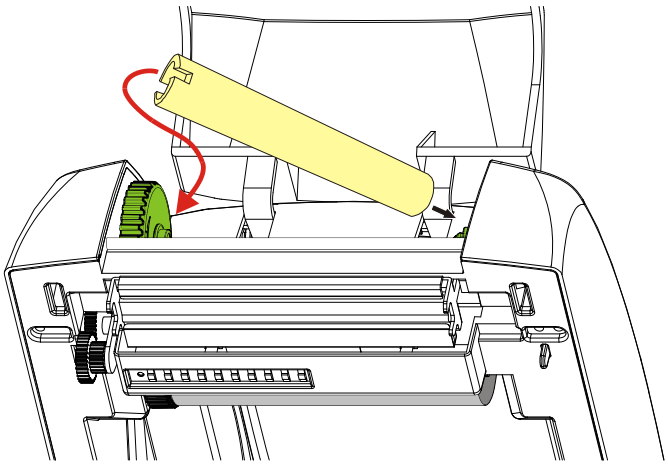
3. Insert the foil roll to the supply spindle.



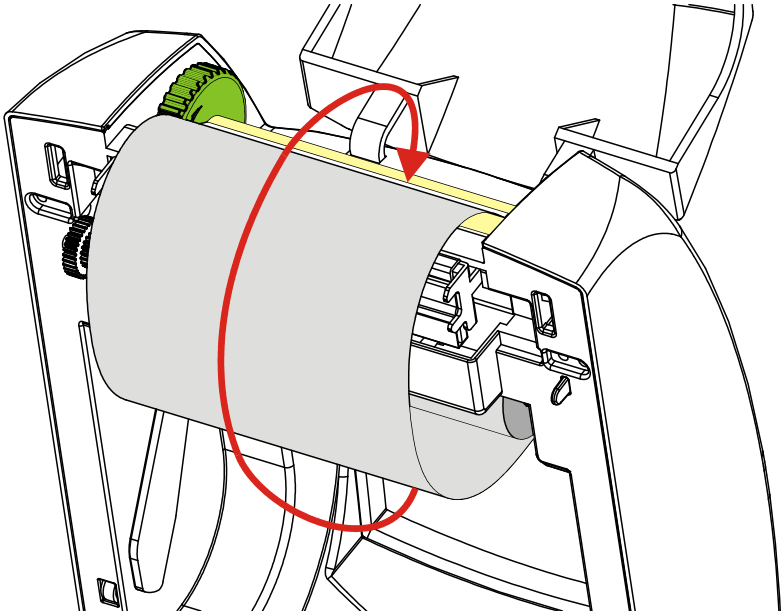
4. Rotate the supply hub until the notches align and lock in to the left side of supply hub.



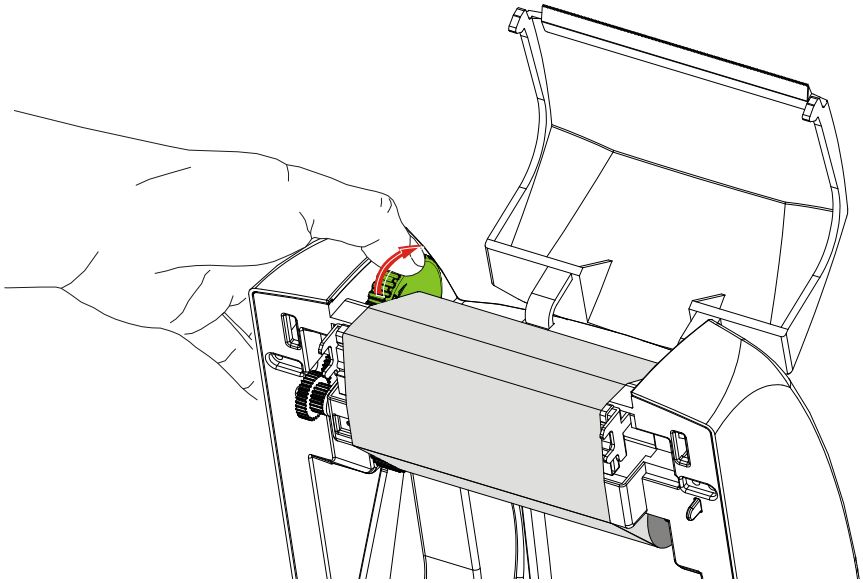
5. Insert an empty media core into the take up spindle. Rotate the take up hub until the notches align and lock on the left side of take up hub.



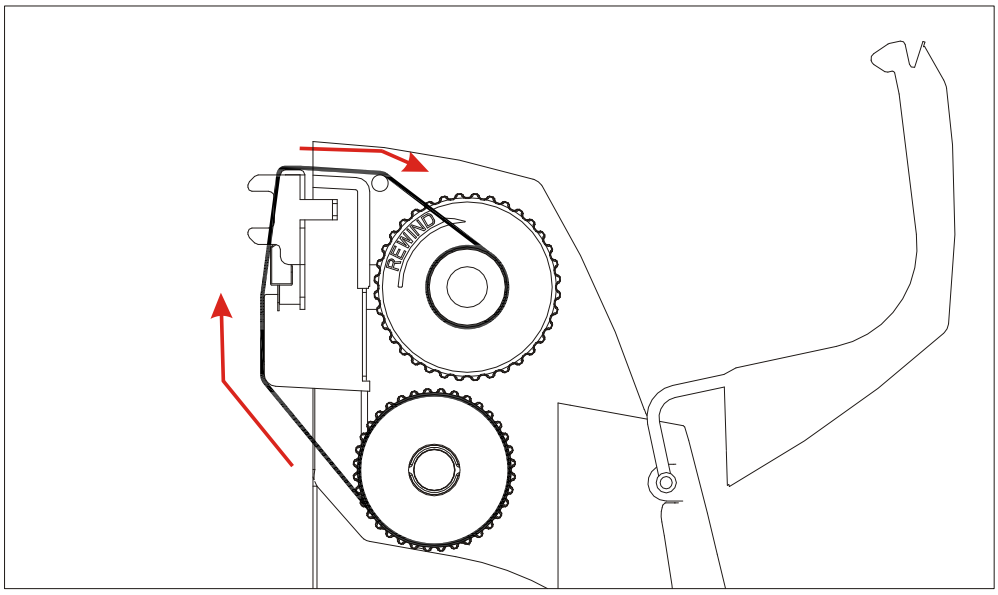
6. Pull the foil out from the roll and stick it with adhesive tape on the empty foil take up core.



7. Rotate the take up hub on the left side of foil spindle until the foil is pulled tight.

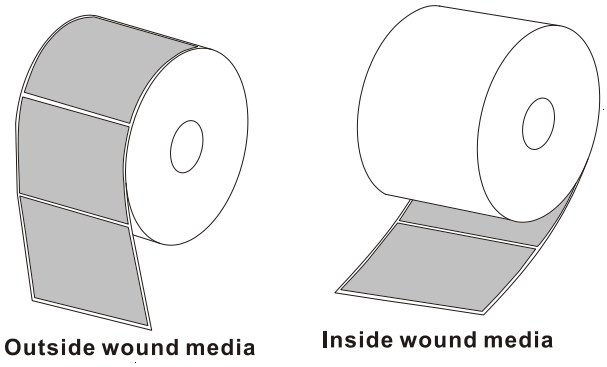


Note: The loading path of foil roll (outside wound)



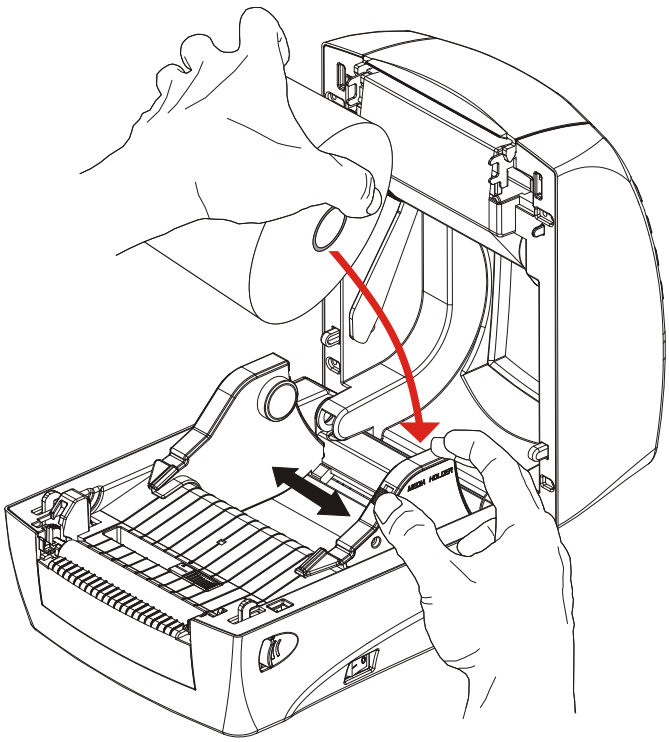
2.2 Loading the media

Whether the media roll is inside or outside wound, they could be used in this printer and loaded in the same way.

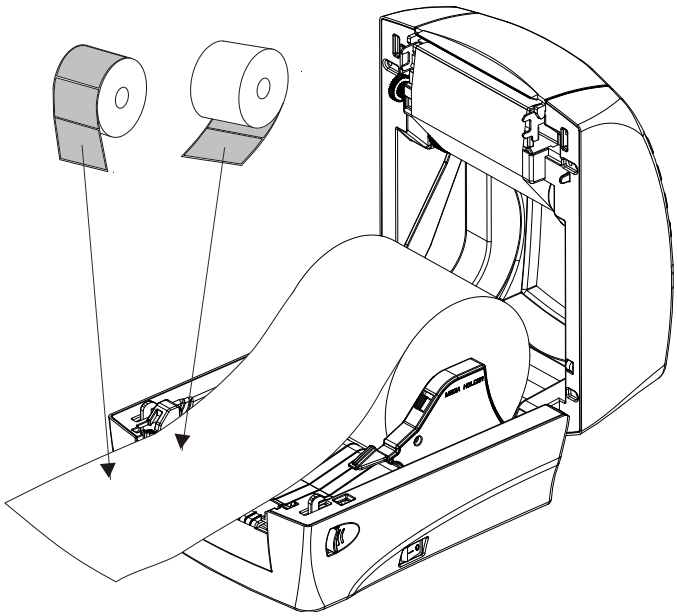


1. Open the printer cover by pulling the release latch toward the front of printer.

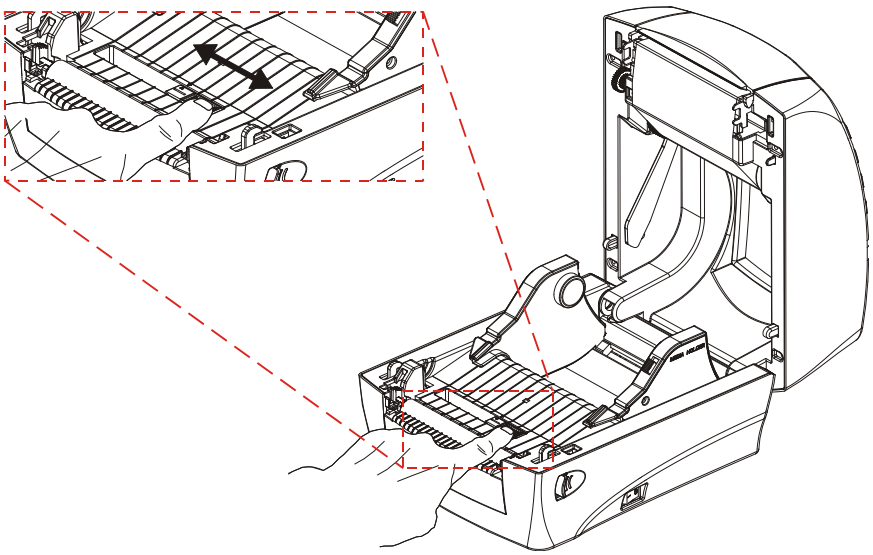
2. Press the holder latch and pull the media holders open. Place the media roll on the holders and push media holder toward the roll by pressing the holder latch. Release the latch when the media is firmly on the holder.



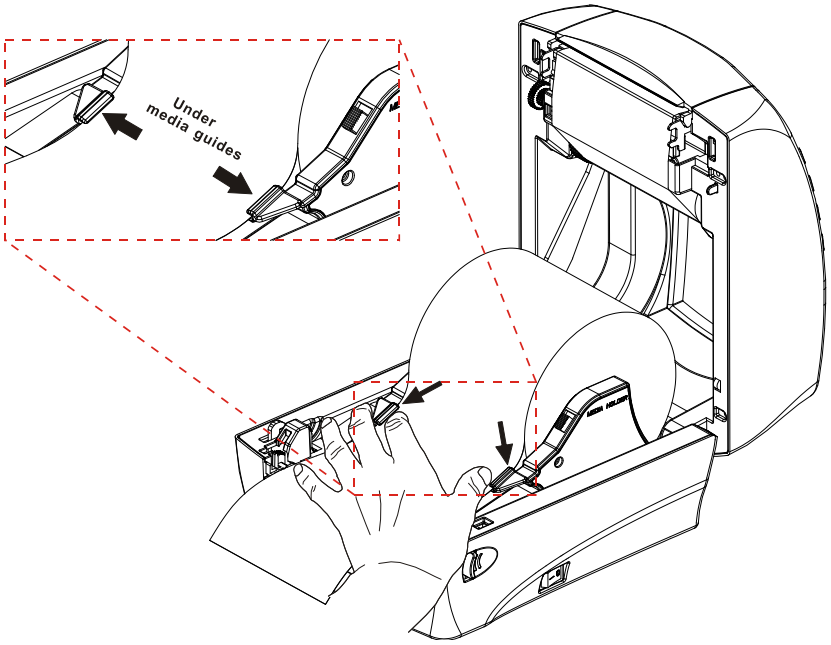
3. Pull the media so it could extend out the printer. Make sure the printing surface is facing up.



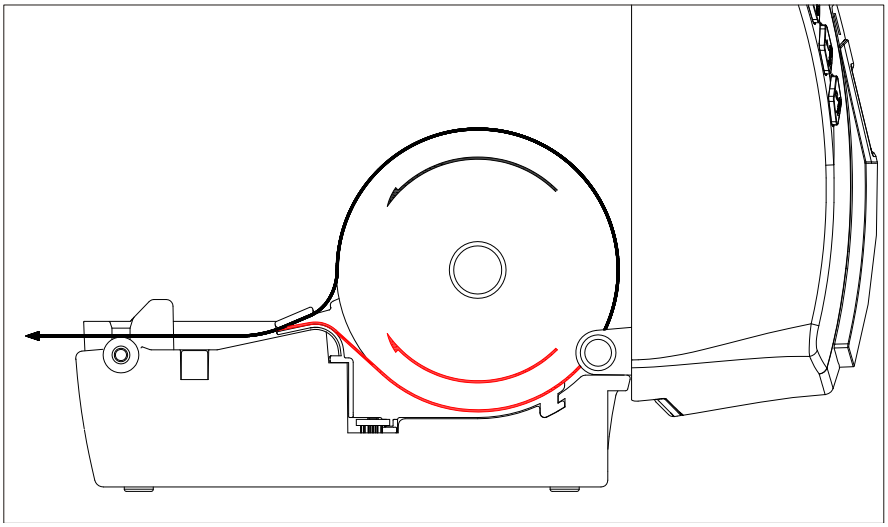
4. Before pushing the media under the guides, adjust the label senor to appropriate position to detect the labels with gap, hole or black mark.



5. Push the media under both sides of guides.

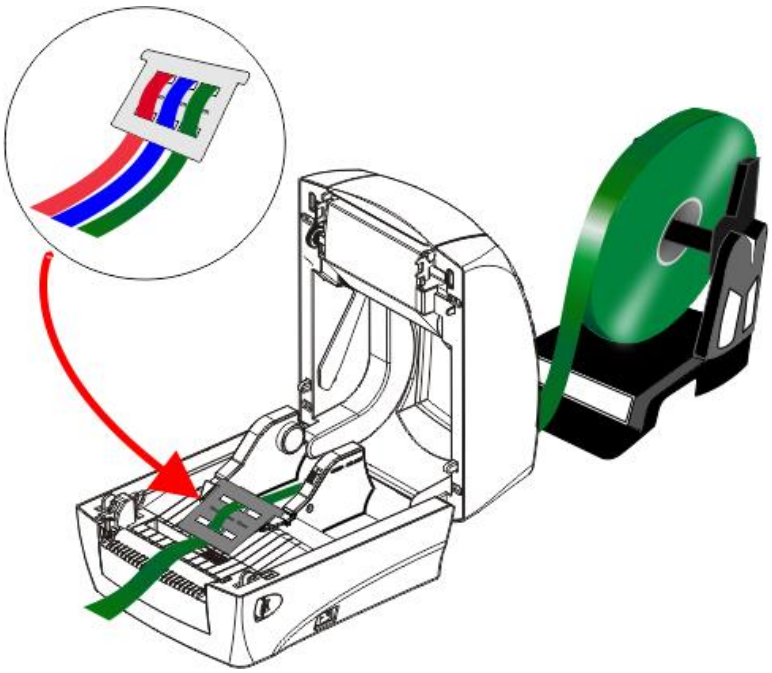


Note: The loading path of label roll (inside and outside wound)



2.3 Printing up to three ribbons, with external holder and an optional adapter card

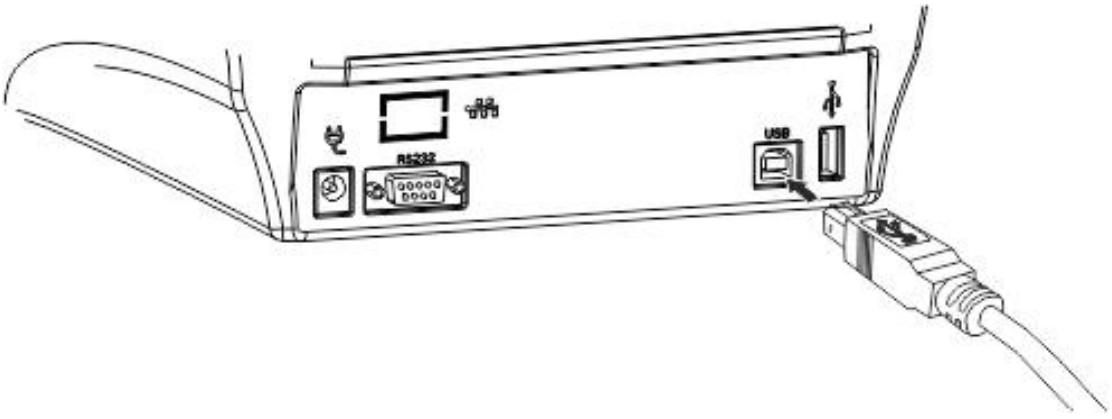
When printing on textile ribbons, an optional adapter is available, enabling printing on three ribbons simultaneously.



2.4 JMB4 Connecting interfaces

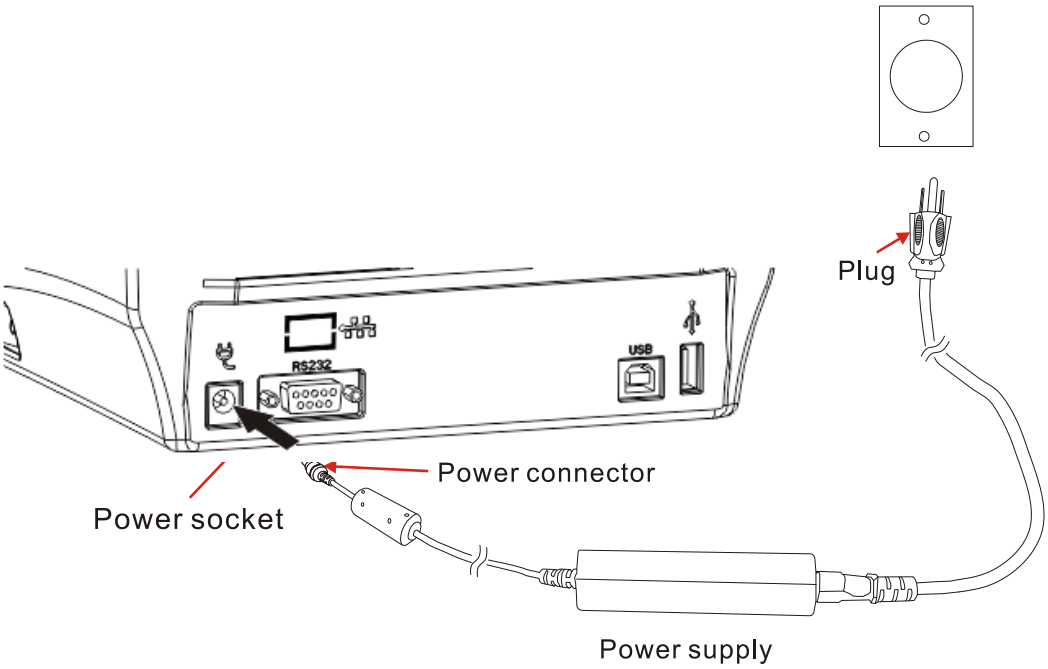
The following interfaces could be connected to PC to operate the printer:

2.4.1 USB Slave



2.5 Power on the printer

1. Make sure the printer power switch is off
2. Plug the power connector into the power socket at the rear side of printer.
3. Plug the power cord in the power outlet.
4. Turn the printer power switch to on.



Caution. Please ensure that the printer power is off before connecting the interface cable. Connecting the interface cable while printer power is on might cause damage to the printer.

2.6 JMB4 Control panel

The key functions are available under the printer **READY** mode

Button	Appearance	Function
Func.		Enter printer function mode
Feed		Feed a blank label

Note: Press func. key for over 3 seconds to enter the function mode. When printer is in function mode, Func. key will keep flashing till the Func. key is pressed again to escape the function mode.

The key functions are available under the printer **PRINTING** mode

Button	Appearance	Function
Cancel		• Stop and cancel the current printing job • Removes the error status when problem is resolved.
Pause		Stop and restart the printing process

Press func key for over 3 seconds to enter Function mode:

Button	Appearance	Function
Func		Quit Function mode
Cancel		Calibrate the label
Pause		Dump mode
Feed		1. Press func key to Print self test page 2. Press func key for over 3 seconds to factory default

Press Cancel key for over 3 seconds to enter Advanced Calibration mode:

Button	Appearance	Function
Func		High Sensitive mode
Cancel		Quit Cancel mode
Pause		Normal mode
Feed		Low Sensitive mode

Buttons light			
Cancel		Flash in red light	Error message • Foil out (error) • Label out (error) • Top cover opened
Cancel Func.		Flash in red light Flash in blue light	Error message • Gap out
Cancel Pause		Flash in red light Flash in blue light	Error message • Label out (error)
Cancel Feed		Flash in red light Flash in blue light	Error message • Foil out (error)

3. Specifications

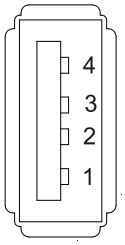
3.1 JMB4 specifications

Model	JMB4
Resolution	203/300 dpi
Print mode	Direct Thermal/Thermal Transfer
CPU	32-bit CPU
Memory	RAM: 8MB SDRAM ROM: 4MB Flash ROM Flash ROM expandable to 8MB
Print speed	200 dpi 1 to 4 ips/300 dpi 1 to 3 ips
Max. print length	150” (3810mm)
Print width	4.1” (104mm)
Sensor type	Moveable reflective sensor Foil sensor Cover open sensor
Control panel	4 functional keys 4 status LED light 1 error LED light
Media	Maximum label width: 4.33” (110mm) Minimum label width: 0.59” (15mm) Maximum roll diameter: 5” (127mm) Core diameter: 1.0” (25.4mm) Media thickness: 0.002” (0.06mm) to 0.0075” (0.2mm) Media type: Continuous, die-cut, tag, fan-fold, black mark
Foil	OD: 1.535” (39mm) Max length: 100m Width: 1.0” (25.4mm) to 4.3” (110mm) ID: 0.5” (12.7mm) Foil type: Wax, wax/resin, resin
Interfaces	Serial port-RS-232 USB master port USB slave port

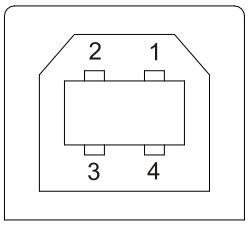
1D barcodes	Code39 standard or extended, Code39 with check digit, Code93, Code128 UCC, Code128 auto A,B,C modes, Codabar, EAN8, EAN8/13 2&5 digit add-on, EAN13, Interleaved 2 of 5, Interleaved 2 of 5 with check digit, Interleaved 2 of 5 with human readable check digit, UCC/EAN 128, UPC A, UPC A 2&5 digit add-on, UPC E, UPC E 2&5 digit add-on, UPC Interleaved 2 of 5, Code11
2D barcodes	Data Matrix, MaxiCode, PDF417, QR code
Fonts	5 internal expandable bitmap fonts (alpha-numeric) 2 internal expandable bitmap fonts (numeric only) Downloadable soft font 4 directions: 0, 90, 180, 270 degrees
Image	PCX, Direct binary graphic
Options	JMB4 Peeler kit JMB4 Cutter Ethernet module Expand card with battery
Power	Switching power adapter Input: 100 to 240V, 1.8A, 50~60Hz Output: 24V, 2.5A
Audio	N/A
Real Time Clock	Battery board card
Environment	Operation: 5℃ to 45℃(40℉ to 112.9℉) Storage: -20℃ to 50℃ (-4℉ to 121.9℉)
Humidity	Operation: 10% to 90% non condensing Storage: 5% to 95% non condensing
Printer dimension	Width: 200.00mm (7.83”) Length: 263.19mm (10.36”) Height: 188.29mm (7.41”) Weight: 2KG
Certification	CE, FCC class B, CB, CCC

3.2 Universal Serial Bus (USB) port pin assignment

Connector type: Type A and B



USB A (Master)



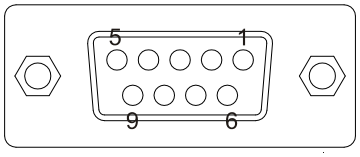
USB B (Slave)

Pin	Function
1	VBUS
2	D-
3	D+
4	GND

Note: Master VBUS provides +5V max current 500mA. Slave VBUS is N/C.

For more information about USB, please visit the website: www.usb.org.

3.3 Serial port pin assignment



Pin	Printer side
1	N/C
2	TXD
3	RXD
4	DSR
5	GND
6	DTR
7	CTS
8	RTS
9	+5V

Note: Serial port provides +5V max current 500mAh

Note: Serial port is available on T4 model